DIRECTIONAL MICROPHONE

Patent number: JP3101399

Publication date: 1991-04-26

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Applicant: AMERICAN TELEPHONE & TELEGRAPH

Classification:

- international: ***H04R1/32; H04R1/38; H04R1/40;*** **H04R1/32; H04R1/40;** (IPC1-7): H04R1/38; H04R3/00; H04R5/027

- european: H04R1/32C; H04R1/38; H04R1/40C

Application number: JP19900125637 19900517

Priority number(s): US19890354535 19890519

Also published as:

EP0398595 (A2)
US4965775 (A1)
EP0398595 (A3)
EP0398595 (B1)

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Abstract of **JP3101399**

PURPOSE: To constitute a secondary gradient microphone by arranging a sensor unit opposite to an acoustic reflection face, so that acoustic mutual action between the sensor unit and the acoustic reflection face provides an output of the sensor unit with a pattern corresponding to a secondary gradient. CONSTITUTION: A directional microphone device 11 has the single first-order gradient(FOG) sensor 13, which is fixed on an aperture 14 formed on the center of a buffle 12. The sensor 13 and the buffer 12 are separated from the acoustic reflection face 15 by a prescribed distance z0 , and a face regulated by the sensor 13 and the buffle 12 is in parallel with the reflection face 15. The bi-directional axis of the sensor 13 is orthogonal to the reflection face 15, and the prescribed distance z0 from the face 15 is a function of the maximum frequency. An output from the sensor is the sum of its own output, and an output from a virtual image and the obtained sensor output has a secondary gradient characteristic. Consequently, the secondary gradient microphone can be formed.